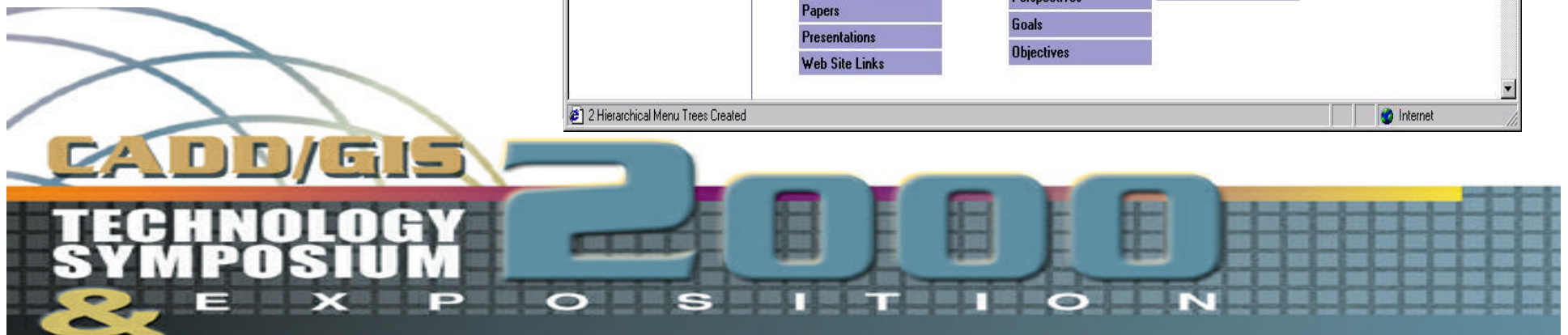
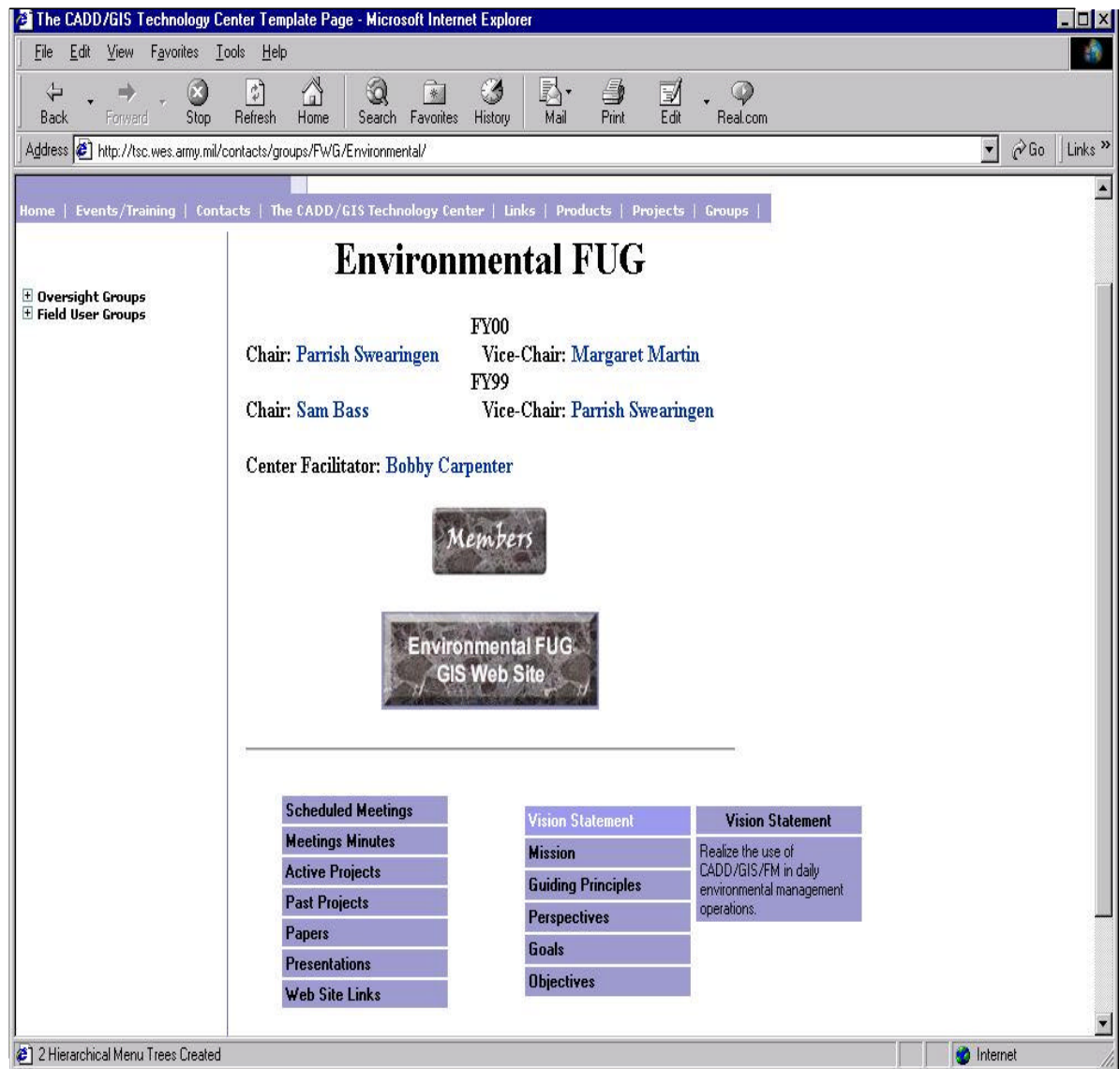


Environmental Field User Group



Environmental FUG - Center Project No. 00.032 - Development of SDS/FMS to GMS Interface

Objective: Develop electronic interface to extract data from Spatial Data Standards (SDS)/Facility Management Standards (FMS) compliant database and load it into the Department of Defense (DoD) Ground Water Modeling System (GMS) for environmental groundwater modeling and analysis.



Address  http://chl.wes.army.mil/software/gms/

@ home
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**Department of Defense
Groundwater Modeling System**

The Department of Defense Groundwater Modeling System (GMS) is the most sophisticated groundwater modeling environment available today.

Watch A Movie About GMS!

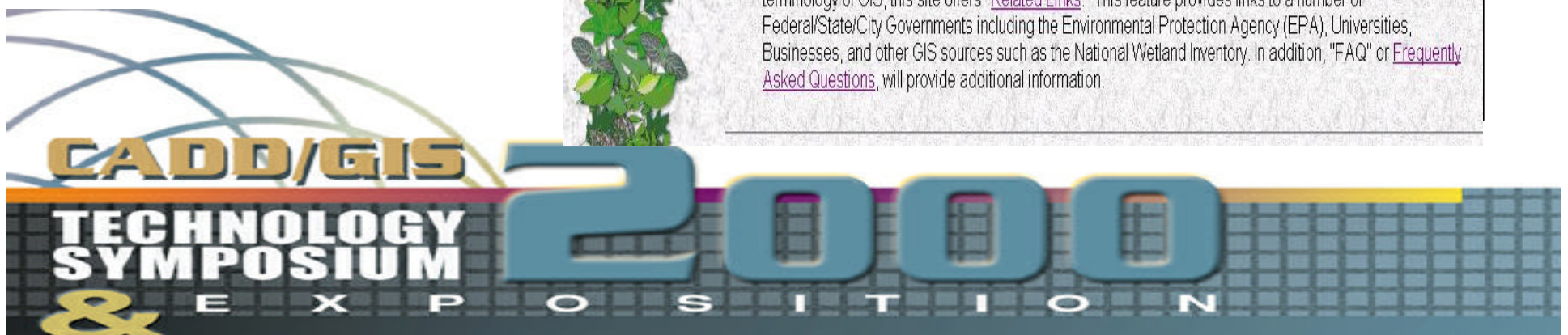
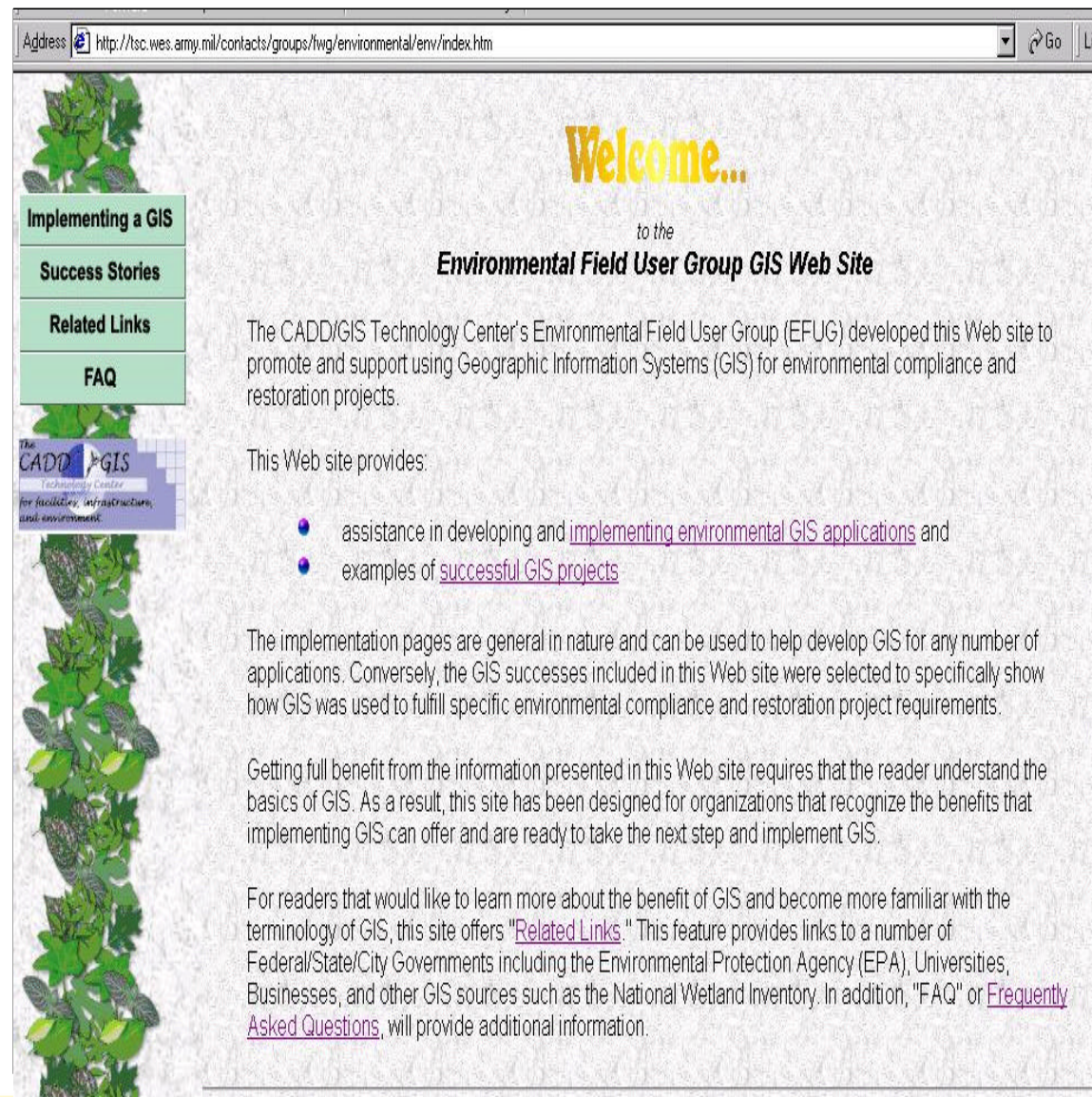
Current GMS version - 3.0

The Department of Defense, in partnership with the Department of Energy, the U.S. Environmental Protection Agency, Cray Research, and 20 academic partners, has developed the DoD Groundwater Modeling System. The GMS provides an integrated and comprehensive computational environment for simulating subsurface flow, contaminant fate/transport, and the efficacy and design of remediation systems.

GMS integrates and simplifies the process of groundwater flow and transport modeling by bringing together all of the tools needed to complete a successful study. GMS provides a comprehensive graphical environment for numerical modeling, tools for site characterization, model conceptualization, mesh and grid generation, geostatistics, and sophisticated tools for graphical visualization. What's more, all this is available for both PC and UNIX based operating systems.

Environmental FUG - Center Project Number 97.022

Developed Guidance &
Provided Success Stories
Concerning Use of GIS
Technology for
Environmental
Restoration &
Compliance Applications



Environmental FUG - GIS Web Site

Provides Guidance
Concerning Use of GIS
Technology for
Environmental
Restoration &
Compliance Applications

Implementing a GIS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Real.com

Address <http://tsc.wes.army.mil/contacts/groups/twg/environmental/env/frameimplement.htm> Go Links

IMPLEMENTING A GIS

Needs Assessment

There is little doubt that mankind has had, and continues to have an impact on our environment. This recognition has led both public and private enterprises to implement a number of environmental policies and programs specifically aimed at correcting past problems, preventing future problems, and generally improving the environment and quality of life.

Systems Analysis

Data Acquisition

Data Distribution

Staffing

Training

Maintenance

Cost Benefit

Contract Specs

Contract Vehicles

To this end, Environmental, Health, and Safety departments have been working to characterize potentially hazardous sites, cleanup and dispose of wastes, improve air emissions, etc. These increased responsibilities have forced environmental departments to expand their staffs to include a number of specialists in areas such as natural resources, risk assessment, regulatory matters, etc.

To ensure credibility, not only do these studies and actions have to under go technical review, but also many of these tasks are similarly subject to scrutiny by both the public and regulatory agencies. One of the by-products of this increased environmental awareness and emphasis are volumes of documentation, analytical results, reports, and the like that requires distribution, review, and tracking. A Geographic Information System (GIS) has become one of the best tools to organize this information.

Implementing GIS is not a single step. Instead, it is a process or series of individual steps that must be taken in order to derive the full benefit of the system. The process involves the following:

[Needs Assessment](#)

- Identify users/organizations
- Identify the goal or the organization
- Identify and review existing procedures
- Define problems with existing procedures
- Define the GIS and data accuracy requirements

[Return to Beginning](#)

CADD/GIS TECHNOLOGY SYMPOSIUM & EXPOSITION 2000

Environmental FUG - GIS Web Site

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